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J Lepreau, B Ford, M Hibler - Proceedings of the 7th workshop on ACM SIGOPS ..., 1996 - portal.acm.org

... Thus, a complete **virtual machine interface** is maintained at each level ... We have defined the detailed Fluke **API** [6], the "Flexible/**-kernel** Environment." A ...

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P Barham, B Dragovic, K Fraser, S Hand, T ... - Proceedings of the nineteenth ACM symposium on ..., 2003 - portal.acm.org

... Unfortunate **configuration** interactions between various services ... entire guest OS **kernel** (with associated ... 2.1 The **Virtual Machine Interface** Table 1 presents an ...

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[\[PDF\] <sup>\\*</sup>Pre-virtualization: soft layering for virtual machines](#)

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... Xen/x86 hypervisor back-end: The x86 Xen **API** resembles the hardware **API**, even using the hardware iret instruction to transition from **kernel** to user. ...

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C Beauduy, R Bettati - Proceedings of the IASTED International Conference ..., 1999 - Citeseer

... **Kernel** ... 3.3 Host-PANIC **Virtual Machine Interface** ... Like the **api** latency, the user-application employs busy-polling to detect changes in a lock signaling packet ...

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... device operations into the network- ing **API** of the ... are when returning from the guest **kernel's** interrupt handler ... with minimal feature sets, and **config-** ured the ...

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[Virtual machine interface for hardware reconfigurable and software programmable ...](#)

S Chen, KM Hesky, RR Joag, JD Medlock, ... - US Patent App. 11/841,848, 2007 - Google Patents

... system comprising a **virtual machine interface** (VMI) and an application programming interface (**API**) for use ... having a plurality of hardware **kernels** and an ...

[All 7 versions](#)

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Y Wiseman, J Isaacson, E Lubovsky, P ... - Advanced Operating Systems and Kernel Applications ..., 2009 - books.google.com

... The **virtual machine interface** also benefits the virtual memory ... In a 4KB stack size **configuration**, interrupts have ... to implement Windows **kernel API** and NDIS ...

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## [PDF] Introduction to Morphware

C Architectures - morphware.org

... Brook supports a flat graph of **kernels**, each of ... of human effort to maximize performance for that **configuration**. ... PCA target platforms, each new **API** or source ...

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## Scale and performance in the Denali isolation kernel- [psu.edu](#) [PDF]

A Whitaker, M Shaw, SD Gribble - ACM SIGOPS Operating Systems Review, 2002 - portal.acm.org

... significant complexity and typically have a wide **API**, violating the ... Denali **virtual machine interface** ... I,guet,, I "" i-,-u-;i:: L2L\_ Denali isolation **kernel** ...

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R Barr, ZJ Haas, R Vanrenesse - US Patent App. 11/116,733, 2005 - Google Patents

... semantics are introduced by the rewriter and simulation time **kernel**. ... The following **configuration** description is presented for illustrative purposes only. ...

[All 2 versions](#)

## Heterogeneous parallel and distributed computing

VS Sunderam, GA Geist - Parallel Computing, 1999 - Elsevier

... file for use by P4 that results in a logical process **configuration** corresponding to a 3-d ... While MPI-1 defined a message passing **API**, it was not portable across ...

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H Bohme, U Golze - Lecture Notes in Computer Science, 2004 - Springer

... approach mainly using an additional **API** with **virtual machine interface**. ... in section 2 our real-time **kernel** to give ... present our minimized real-time **API** using a ...

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## [PDF] X86-64 XenLinux: Architecture, Implementation, and Optimizations

J Nakajima, A Mallick, I Pratt, K Fraser - Linux Symposium - Citeseer

... does not have high-level interface **API** for the ... not improve other benchmarks, such as **kernel** build. ... References [1] **Virtual machine interface** (vmi) specifications ...

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G Ammons, J Appavoo, M Butrico, D Da Silva ... - Proceedings of the 3rd international conference on ..., 2007 - portal.acm.org

... operating system into two parts: a small, trusted **kernel** (called the ... **API** should include a subset of the libc **API** to enable easier ... Xen **virtual machine interface** ...

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A Pant, S Krishnamurthy, R Pennington, M ... - bioinformatics.org

... **2. Virtual Machine Interface** ... multiple underlying communication protocols while providing a uniform **API**. ... the sockets device requires a **kernel** level transition ...

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[Enabling scalability and performance in a large scale CMP environment- \\*sfu.ca \[PDF\]](#)

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... extensions to a micro-**kernel** operating system ... McRT supports a pthreads, OpenMP and Java **virtual machine interface**. ... scheduler framework exports an **API** to enable ...

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D Marinescu, R Kröger - Distributed Systems Lab, Wiesbaden University of ..., 2007 - Citeseer

... translation of privileged code (**kernel** code) which ... is referred to as the **virtual machine interface** and consists ... libvirt 21 , a virtual machine management **API**. ...

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S Pakin, A Pant - The 8th International Symposium on High Performance ..., 2002 - Citeseer

... 2.0, the second version of the **Virtual Machine Interface** communication middleware ... after the Windows NT **kernel** architecture [12 ... The VMI 2.0 **API** contains calls to ...

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[\[PDF\] \\*Virtualizing High-Performance Graphics Cards for Driver Design and Development](#)

R Geist, ZH Jones, J Westall - cs.clemson.edu

... then be mod- ified to run on the **virtual machine interface**. ... The KVM-supported **kernel** includes a character de ... is virtualization at the graphics **API** level, not ...

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[\[PDF\] \\*High assurance computing on open hardware architectures](#)

Y Chen, P England, M Peinado, B Willman - Microsoft re-Research Technical Report MSR-TR-2003- ..., 2003 - Citeseer

... this mapping is to allow each **virtual machine interface** to expose ... is statically linked into the Windows XP **kernel**. ... first program uses the Win32 GDI **API** to draw ...

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[\\*vBlades: Optimized paravirtualization for the Itanium processor family](#)

DJ Magenheimer, TW Christian - unix.org

... Some VMMs intentionally compromise the **virtual machine interface** in exchange for greater performance. ... Other VMMs provide an explicit **API** and allow or require a ...

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J Root - [disy.cse.unsw.edu.au](mailto:disy.cse.unsw.edu.au)

... systems must be ported to run on the **virtual machine interface**. ... to hypercalls, that is, hypervisor **API** calls, in order for guest **kernels** to operate correctly ...

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ST Jones, 2007 - Citeseer

... architecture. The **virtual machine interface** isolates the VMM from guest operating systems and hides a guest's internal state from the VMM. ...

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ST King, GW Dunlap, PM Chen - [eeecs.umich.edu](mailto:eeecs.umich.edu)

... does not have to utilize a **virtual machine interface** or understand ... This **configuration** is referred to as a Type II ... The guest **kernel** is compiled with dwarf2 [15 ...

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... altogether using the same set of **API** and still ... The paravirtualization exports a new **virtual machine interface** that aims at ... only one of the two **kernels** has the ...

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... 84 5.4 Using the Xen **API** to access the Xen hypervisor . . . . . is referred to as the **virtual machine interface** (VMI). ... to the **kernel**. ...

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P AGRAWAL - [iitd.ac.in](mailto:iitd.ac.in)

... The ICM is a C **API** used to create the platform ... 3.2.2 **Virtual Machine Interface** (VMI) ... the processor model to communicate with the simulation **kernel** and the ...

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C Wolf - [depth-research-overview](mailto:depth-research-overview), Burton Group, 2007 - [hosteddocs.ittoolbox.com](http://hosteddocs.ittoolbox.com)

... application programming interfaces (**APIs**) must reside ... guest operating system **kernel**, operating system ... of the open **Virtual Machine Interface** (VMI) specification ...

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[Grid Enabled MPI: PACX-MPI Optimization- fcu.edu.tw \(PDF\)](#)

MS Lin, Y Hsu - dspace.lib.fcu.edu.tw

... A. MPICH-VMI **Virtual Machine Interface** [14](VMI) is a set of ... is based on vendor MPI and includes **API** library and ... There is a IP tunneling module in Linux **kernel**. ...

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[Flexible TDMA system architecture](#)

R Subramanian, CC Woodthorpe, DM Holmes ... - US Patent App. 09/922,486, 2001 - Google Patents

... Receive Path 354 Modem Function 320 Demux Data Switching 329 Functional **Kernel**

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J Howell - Citeseer

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T Van Looy - har2009.org

... The MI is a **virtual machine interface** to the system, consisting of ... IBM does provide **API's** so you can implement this ... IBM ported the Linux **kernel** to the IBM i ...

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[\[PDF\] Evolution of image filters on graphics processor units using cartesian genetic programming](#)

S Harding - IEEE World Congress on Computational Intelligence, ..., 2008 - gpgpgpu.com

... is typically done through a **virtual machine interface** such as ... The **API** also provides reduction operators, such as ... is defined as a convolution **kernel** (or program ...

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P Reames, E Chan, F David, J Carlyle, R ... - Illinois Journal of Undergraduate Research, 2007 - Citeseer

... to enforce a restricted platform **API** for paravirtualization ... rather than duplicating existing **kernel** functionality ... 15] and the **Virtual Machine Interface** (VMI) [16 ...

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[Data processing apparatus, system and method](#)

G Cabillic, JP Lesol, M Banatre, G Chauvel, D ... - US Patent App. 10/003,570, 2001 - Google Patents

... an application respecting VXWORKS **APIs**, JWORKS could ... and dedicated processor **kernel** oper- ating ... the modular JAVA **Virtual Machine interface** definition language ...

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SL Wasson, DK Varn, JD Raiston - US Patent App. 11/435,012, 2006 - Google Patents

... 1 Status Signal Successful Installation I - — ^Terminol **Configuration** Update ... I

Constituent Processing Functions 542 i Inter-**kernel** Communication Analysis 420A ...

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### Wireless spread spectrum communication platform using dynamically reconfigurable logic

R Subramanian, U Jha, JD Medlock - US Patent App. 11/193,851, 2005 - Google Patents

... A design **configuration** of the first computing element is heterogeneous with respect to a design **configuration** of the second computing element. ...

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### VMM-based hidden process detection and identification using Lycosid- [wisc.edu](#) [PDF]

ST Jones, AC Arpaci-Dusseau, RH Arpaci- ... - Proceedings of the fourth ACM SIGPLAN/SIGOPS ..., 2008 - portal.acm.org

... the relative security of the **virtual machine interface**, VMM-based ... semantics of private Linux **kernel** data structures ... Lycosid invokes documented **APIs** to obtain ...

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... intentionally com- promise the **virtual machine interface** in exchange ... may provide an explicit **API** and allow ... Itanium), certain hardware **configuration** states are ...

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JT LeVasseur, 2009 - 141.3.40.244

... machines to enhance reliability is an old tech- nique, with the improvements often attributed to smaller and simpler privileged- mode **kernels**, and isolation of ...

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... the original developers of the VSIPL **API** and participated ... Implementation of SVM calls for hardware **configuration** o Allocate memory for **kernels** and streams to ...

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I Mevag - Master's thesis, University of Oslo, Oslo University ..., 2007 - Citeseer

... application, and the Xen-**API** it communicates ... not restricted to the actual physical **configuration**. ... builder defines the **virtual machine interface** by replacing ...

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TS Woodall, RL Graham, RH Castain, DJ ... - Lecture notes in computer science, 2004 - Springer

... 10], Sun's MPI [12], and the **Virtual Machine Interface** (VMI) 2.0 ... closely to the MPI-provided point-to-point **API**. ... module queries the list of **kernel** interfaces ...

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... 6.1 **Virtual Machine Interface** .....50 6.2 ... memory without **kernel** intervention ... GM **API** and ...

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S Harding, W Banzhaf - International Journal of High Performance Systems ..., 2008 - Inderscience

... is typically done through a **virtual machine interface** such as ... evolutionary algorithm and the underlying **API**, drivers and ... will allow for multiple **kernels** to be ...

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S Biemueller, 2006 - Citeseer

... Page 19. 2.4. SUMMARY 11 **API** interface. It achieves near native performance. ... It supports detection and recovery from **kernel**-level and user-level root-kits. ...

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K Govil, 2000 - Citeseer

... 3.1 SGI Origin 2000 **configuration** . . . . . containment, interaction with the virtual machine **kernel**, and realistic evaluation of the ... There is a rich **API** ...

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F Mielke, R Grabner, T Mehlan - Citeseer

... No **kernel** support becomes necessary. ... the InfiniBand architecture, communication stack and verbs **API**. ... **Configuration** responsibilities include managing switch and ...

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**[CITATION] Professional xen virtualization**

W Von Hagen, 2008 - Wiley India Pvt. Ltd.

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RM Jolliffe - [uir.unisa.ac.za](mailto:uir.unisa.ac.za)

... Window NT4.0. The HAL exports a **virtual machine interface** which is used by the **kernel**, the executive ... operating environment and exports the Win32 **API** to user ...

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... **Virtual Machine Interface**, VMI 2.0 provides features and services to enhance ... such an interface using the **API** of VMI ... VMI 2.0 is modeled after Windows NT **kernel** ...

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GW Dunlap III, 2006 - CiteSeer

... to **configure** a correct, secure system. The rate of increase, along with the economic ... libraries make system calls into the **kernel**, **kernels** access devices, etc. ...

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SH Omar, 2000 - [kunz-pc.sce.carleton.ca](mailto:kunz-pc.sce.carleton.ca)

... Location management deals with mobile clients while **configuration** management refers to mobility of resources. In a mobile environment, the Page 16. 4 ...

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... An example of a standardized **API** for system level operations is the ... fault tolerant systems, since it also offers protection against **kernel** crashes, which ...

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NH Walfield - Submitted to EuroSys, 2009 - [plato.walfield.org](mailto:plato.walfield.org)

... 12 2.3 **Virtual Machine Interface** . . ... First, the **kernels** knows about frames and CPU time, but applications use libraries and other programs as black boxes and ...

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... machines, one can use the best fit for software, **configuration** and operating ... Operating system **kernels** are often called supervisor and since the virtual machine ...

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... of domains; processor-control services that provide for **configuration** and scheduling of ... to the control program; and a secure platform **kernel** that executes at a ...

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... Implementation of standard **APIs** •• ... processing from the **kernel** of an operating system into untrusted user-space code and ...

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... should be deployed. One solution is to provide support for profiling through a general purpose **virtual machine interface**. For example ...

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... **API** defined to implement parallel applications. ... erating systems and is part of the standard Linux **kernel** distribution, Mac OS X, ...

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... **API** Application Programming Interface ... Hierbei handelt es sich um durch einen GeNUA-eigenen **Kernel**-Patch noch weitergehend eingeschränktechroot- Umgebungen. ...

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